

**Amendments to the Claims:**

This listing of Claims will replace all prior versions, and listings, of Claims in the Application.

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**Listing of Claims:**

Claim 1 (Currently Amended) A networked optical storage server configured to couple to a plurality of users across a network; and the networked optical storage server comprising:

- 10       • at least one optical storage media;
- a network module configured to couple to the network for packet based communications with the plurality of users;
- at least one memory coupled between the network module and the at least one optical storage media; and
- 15       • a processor coupled to the at least one volatile memory and configured to coalesce in the volatile memory multiple data packets each associated with a corresponding file or datastream received from the plurality of users into a single corresponding aggregate data packet and to write each aggregate data packet to the at least one optical storage media, thereby reducing a number of write operations required to write
- 20       data to the at least one optical storage media.

Claim 2 (previously presented) The networked optical storage server of Claim 1, further comprising:

- 25       • the at least one volatile memory including:

- a first memory for receiving data packets from the plurality of users;
- a second memory; and
- the processor further configured to coalesce the received data packets from the first memory into the single corresponding aggregate data packet in the second memory; and to write each aggregate data packet in the second memory to the at least one optical storage media.

Claim 3 (previously presented) The networked optical storage server of Claim 1, wherein each aggregate data packet further comprises at least one of :

- data corresponding with a single file of data from a plurality of the network packets received from a corresponding one of the users; and
- data corresponding with multiple files of data from the plurality of network packets received from corresponding ones of the users.

Claim 4 (previously presented) The networked optical storage server of Claim 1, further comprising:

- a hard drive coupled to the processor; and
- the processor further responsive to a cache policy selection by an administrative one of the users to cache on the hard drive, a cached copy of a selected one of:
  - directories of corresponding file structures stored on the at least one optical storage media;
  - directories and data stored on the at least one optical storage media;
  - and
  - an archived copy of data on the at least one optical storage media, accessible after removal of the at least one optical storage media from the server;

thereby decreasing an amount of time required to provide the corresponding cached copy to the plurality of users.

Claim 5 (currently amended) A networked optical storage server configured to couple to a plurality of users across a network, and the optical storage server comprising:

- at least one optical storage media storing files organized in directories for access by the plurality of users;
  - a network module configured to couple to the network for packet based communications with the plurality of users;
  - 10 a hard drive; and
- a processor coupled to the hard drive, and the processor responsive to a cache policy selection by an administrative one of the users to cache on the hard drive, a selected cached copy of a selected one of:
- 15 ○ directories of corresponding file structures stored on the at least one optical storage media;
  - directories and data stored on the at least one optical storage media;
  - and
  - an archived copy of data on the at least one optical storage media,
  - 20 accessible after removal of the at least one optical storage media from the server;
- thereby decreasing an amount of time required to provide the corresponding cached copy to the plurality of users.

6. (currently amended) A method executed on an optical storage server configured to couple to a plurality of users across a network, comprising the acts of:

- providing at least one optical storage media;
- 5       • coupling to the network for packet based communications with the plurality of users;
- coalescing multiple data packets each associated with a corresponding file or datastream received from the plurality of users into a single corresponding aggregate data packets and
- 10       • writing each aggregate data packet coalesced in the coalescing act to the at least one optical storage media, thereby reducing a number of write operations required to write data to the at least one optical storage media.

Claim 7 (previously presented) The method of Claim 6, wherein each single corresponding  
15 aggregate data packet coalesced in the coalescing act further comprises at least one of :

- data corresponding with a single file of data from a plurality of the network packets received from a corresponding one of the users; and
- data corresponding with multiple files of data from the plurality of network packets received from corresponding ones of the users.

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Claim 8 (previously presented) The method of Claim 6, further comprising:

- providing a hard drive;
- selecting a cache policy for the caching of data on the hard drive; and
- caching on the hard drive, responsive to the selection of cache policy, a cache  
25 copy of a selected one of:

- directories of corresponding file structures on the at least one optical storage media;
- directories and data stored on the at least one optical storage media; and
- 5 ○ an archived copy of data on the at least one optical storage media, accessible after removal of the at least one optical storage media from the server;

thereby decreasing an amount of time required to provide the corresponding cached copy to the plurality of users.

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Claim 9 (previously presented) A method executed on an optical storage server configured to couple to a plurality of users across a network , comprising the acts of:

- providing at least one optical storage media;
- providing a hard drive;
- 15 • coupling to the network for packet based communications with the plurality of users;
- selecting a cache policy for the caching of data on the hard drive; and
- caching on the hard drive, responsive to the selection of cache policy, a cache copy of a selected one of:
  - 20 ○ directories of corresponding file structures on the at least one optical storage media;
  - directories and data stored on the at least one optical storage media; and
  - an archived copy of data on the at least one optical storage media,
  - 25 accessible after removal of the at least one optical storage media from the server;

thereby decreasing an amount of time required to provide the corresponding cached copy to the plurality of users.

5 Claim 10. (withdrawn)